GuardAgents

Study of Novel Generation nanobodies for agri-food applications

Supported by Marie Skłodowska-Curie Actions

The GuardAgents project is creating next-generation biopesticides based on nanobodies, which are tiny but effective antibodies that can strengthen plant immunity and reduce pesticide use.

Project Facts

6	4	48	6	15
Partners	Countries	Months	Work Packages	Deliverables

347	1738K
Secondment Months	EU Contribution

Work Packages

1. Design, *in vitro* production and biophysical characterization of nanobodies
2. Application of nanobodies as a means of prevention or response to plant viral infections and *in vivo* production
3. Comprehensive analysis of the efficiency of the developed nanobodies
4. Sustainability analysis, exploitation strategy and business plan
5. Communication, dissemination and impact strategy
6. Project Coordination and Management

Objectives

- Establishment of a structured approach for the design, synthesis, and biophysical profiling of nanobodies
- Determination of the optimal expression system for the production of functional nanobodies
- Assessment of the toxicity of the nanobodies
- Establishment of novel techniques able to enhance plant resistance to viruses

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Partners

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